

WHAT IS CLAIMED IS:

- 1 1. An antenna, comprising:
2 a converger, including a conductor which converges a magnetic flux
3 of an electromagnetic wave; and
4 a converter, which converts the converged magnetic flux into voltage.
- 1 2. The antenna as set forth in claim 1, wherein:
2 a through hole into which the magnetic flux is converged is formed at
3 a center portion of the conductor; and
4 a cutout is formed so as to extend from a part of the through hole to
5 an outer periphery of the conductor.
- 1 3. The antenna as set forth in claim 2, wherein the converger includes a
2 resistance reducer provided on at least a peripheral portion of the conductor to
3 reduce resistance against current flowing in the conductor.
- 1 4. The antenna as set forth in claim 2, wherein the conductor plate is
2 composed of a plurality of sub-plates.
- 1 5. The antenna as set forth in claim 1, wherein the converter is provided
2 as a coil.
- 1 6. The antenna as set forth in claim 1, wherein the converter has a size
2 which is sufficiently smaller than a wavelength of the electromagnetic wave.

1 7. The antenna as set forth in claim 5, wherein a winding number of the
2 coil is two or more.

1 8. The antenna as set forth in claim 1, wherein the converter is formed
2 on a semiconductor integrated circuit.

1 9. An antenna for communicating an electromagnetic wave, comprising:
2 a first converger, which converges the electromagnetic wave;
3 a second converger, which faces the first converger and includes a
4 conductor plate having a through hole, into which a magnetic flux of the
5 converged electromagnetic wave is converged, formed at a center portion
6 thereof so as to have a size which is sufficiently smaller than a wavelength of
7 the electromagnetic wave, and a cutout extending from a part of the through
8 hole to an outer periphery of the conductor plate; and
9 a converter, which faces the through hole of the conductor plate to
10 convert the converged magnetic flux into voltage.

1 10. The antenna as set forth in claim 9, wherein the second converger
2 includes an upright conductor formed along an outer peripheral portion of the
3 conductor plate, the through hole and the cutout, so as to extend in an
4 orthogonal direction of a direction in which the conductor plate extends.

1 11. The antenna as set forth in claim 9, wherein the first converger
2 includes a conductor plate having a slot formed at a center portion thereof and
3 an upright conductor formed along an outer periphery of the conductor plate so
4 as to extend in an orthogonal direction of a direction in which the conductor
5 plate extends.

1 12. The antenna as set forth in claim 11, wherein each of the slot of the
2 first converger and the outer periphery of the conductor plate of the second
3 converger has a linear portion whose dimension is substantially a half of a
4 wavelength of the electromagnetic wave.

1 13. The antenna as set forth in claim 9, wherein the converter is provided
2 as a coil.

1 14. An antenna, comprising:
2 a plurality of antenna elements, interconnected with each other, each
3 antenna element including:
4 a converger, including a conductor which converges a
5 magnetic flux of an electromagnetic wave; and
6 a converter, which converts the converged magnetic flux into
7 voltage.

1 15. The antenna as set forth in claim 14, wherein the antenna elements
2 are interconnected such that voltages outputted from the respective converters
3 are added.